

# Vietnam Journal of Mechanics

Volume 47 · Number 2 · June 2025

## RESEARCH ARTICLE

### **Weakly nonlocal Rayleigh waves in orthotropic half-spaces coated by an orthotropic layer with sliding contact**

Pham Chi Vinh, Vu Thi Ngoc Anh, Nguyen Thi Nga 109

### **Analysis of blade's chord length with NACA0015 profile for enhanced wave energy conversion of Wells turbine**

Kha Tuan Tran Huynh, Khoa Anh Vo, Vay Siu Lo, Thien Tich Truong 121

### **Forming limit prediction of advanced high-strength steels (AHSS) using an enhanced ductile damage model**

Hao H. Nguyen 142

### **Research on a flow-mode magneto-rheological impact damper with stroke-activated capability**

Huu-Quan Nguyen, Quoc-Duy Bui, Duc-Nam Nguyen, Quoc Hung Nguyen, Long-Vuong Hoang 154

### **Convolutional neural network for homogenization of particulate composite materials based on finite element data**

Tien-Thinh Le, Quoc Dat Ha, Huan Thanh Duong 167

### **On some general imperfect interface models for conductivity problem**

Nguyen Trung Kien, Nguyen Hoang Quan 182

**Instructions for Authors** of Vietnam Journal of Mechanics are available at

<https://vjs.ac.vn/index.php/vjmech>

Printed in Vietnam by Hoang QuocViet Technology and Science Joint Stock Company

Copyright deposit in 06/2025.

60.000 VND